CORRECTED VERSION

(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 14 October 2004 (14.10.2004)

PCT

(10) International Publication Number WO 2004/087348 A1

(51) International Patent Classification⁷: B21D 53/08, B23P 19/02

(21) International Application Number:

PCT/IB2004/000995

(22) International Filing Date: 1 April 2004 (01.04.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0307465.5

1 April 2003 (01.04.2003) GB

(71) Applicant (for all designated States except US): AP-PLIED SYSTEMS MANAGEMENT LIMITED [GB/GB]; Queens House, Queens Road, Coventry CV1 3DR (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): PIERCE, David, Bland [GB/GB]; 24 Dorsington Close, Hatton Park, Warwick CV35 7TH (GB).

(74) Agent: GEE, Steven, William,; D.W. & S.W. GEE, 1 South Lynn Gardens, London Road, Shipston on Stour CV36 4ER (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

(48) Date of publication of this corrected version:

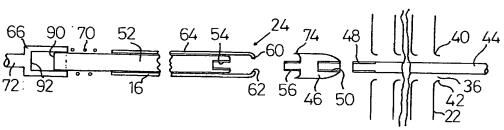
2 June 2005

(15) Information about Correction:

see PCT Gazette No. 22/2005 of 2 June 2005, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TUBE FINNING MACHINE AND METHOD



(57) Abstract: This invention relates to a tube finning machine (10) and to a method of use thereof. Typically, the finned tubes will be for use in heat exchangers. In the present invention, the machine (10) has tensioning means (32, 44) for applying tension to the tubes (16) during the finning process, tension in the tubes reducing the likelihood that the tubes will buckle or deform during the process. Also, the invention discloses the use of a solid material introduced between the fins (22) to support the fins during the finning process, the solid material being removed after completion of the process. The solid material can be a granular material, or it can be a continuous material introduced (and removed) in its liquid state.

